ACI STRUCTURAL JOURNAL

INDEX VOLUME 105, 2008

From a Journal of the American Concrete Institute. January through December 2008

American Concrete Institute®
Advancing concrete knowledge

AMERICAN CONCRETE INSTITUTE, Farmington Hills, Michigan

INDEX

ACI Structural Journal VOLUME 105, 2008

Remove this section and include it with your January through December 2008 Volume 105 issues of the *ACI Structural Journal*.

A

Acceptance test—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) Coogler, K. L.; Harries, K. A.; and Gallick, M., July-Aug. 2008 478

Aggregate interlock—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 590

Aggregate size—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Muttoni, A., and Fernández Ruiz, M., Mar.-Apr. 2008 163

Alcocer, S. M.—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) May-June 2008 327

Al-Hambouth, M. T.—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Mar.-Apr. 2008 145

Ali, F.—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Nov.-Dec. 2008 701

Alkali-silica reaction—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Haddad, R. H.; Shannag, M. J.; and Al-Hambouth, M. T., Mar.-Apr. 2008 145

Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189

Anchor

—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348

—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601

—Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Yang, K.-H., and Ashour, A. F., Sept.-Oct. 2008 609

Anchorage—Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) Roy, N. C., and Breña, S. F., July-Aug. 2008 460

Anggadjaja, E.—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Sept.-Oct. 2008 541

Aramid—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634

Arches—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552

Argudo, J. F.—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Sept.-Oct. 2008 561

Aschheim, M.—Optimal Domains for Flexural and Axial Loading (105-S66) Nov.-Dec. 2008 720

Ashour, A. F.

—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) July-Aug. 2008 414

—Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Sept.-Oct. 2008 609

Axial load

—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Cedolin, L.; Cusatis, G.; Eccheli, S.; and Roveda, M., Mar.-Apr. 2008 215

—Plastic Hinge Length of Reinforced Concrete Columns (105-S28) Bae, S., and Bayrak, O., May-June 2008 290

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123

—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425

B

Bacinskas, D.—Effect of Shrinkage on Short-Term Deflections of Reinforced Concrete Beams and Slabs (Disc. SP-246—10) July-Aug. 2008 516

Bae, S.

—Plastic Hinge Length of Reinforced Concrete Columns (105-S28) May-June 2008 290

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Mar.-Apr. 2008 123

Bailey, C. G.—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Jan.-Feb. 2008 30

Baker, W.—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) July-Aug. 2008 451

Barbosa Ferraz Cavalcanti, A.—Strut-and-Tie Model Analysis for Strength Prediction of Deep Beams (Disc. 104-S61) Sept.-Oct. 2008 644

Bar fracture—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96

Bartlett, F. M.—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Sept.-Oct. 2008 552

Bayesian parameter estimation—Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Kim, J., and LaFave, J. M., Nov.-Dec. 2008 770

Bayrak, O.

—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Sept.-Oct. 2008 561

—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) July-Aug. 2008 395

—Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) July-Aug. 2008 405

—Plastic Hinge Length of Reinforced Concrete Columns (105-S28) May-June 2008 290

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Mar.-Apr. 2008 123

—Strength Evaluation of Interior Slab-Column Connections (105-S63) Nov.-Dec. 2008 692

Bažant, Z. P.—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Nov.-Dec. 2008 685

Beam(s)

—Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) Roy, N. C., and Breña, S. F., July-Aug. 2008 460

—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552

—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 451

—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) Yang, K.-H., and Ashour, A. F., July-Aug. 2008 414

—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 134

—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154

—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008 327

—Optimal Domains for Flexural and Axial Loading (105-S66) Aschheim, M.; Hernández-Montes, E.; and Gil-Martín, L. M., Nov.-Dec. 2008 720

—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Haddad, R. H.; Shannag, M. J.; and Al-Hambouth, M. T., Mar.-Apr. 2008 145
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Hassan, T. K.; Seliem, H. M.; Dwairi, H.; Rizkalla, S. H.; and Zia, P., Mar.-Apr. 2008 173
—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 711
—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498
Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348
Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601
Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Seliem, H. M.; Lucier, G.; Rizkalla, S. H.; and Zia, P., Jan.-Feb. 2008 78
Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) Roy, N. C., and Breña, S. F., July-Aug. 2008 460
Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561
Bending—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Qasrawi, Y., and Fam, A., Nov.-Dec. 2008 750
Bending moment—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Cedolin, L.; Cusatis, G.; Eccheli, S.; and Roveda, M., Mar.-Apr. 2008 215
Bent bars—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Seliem, H. M.; Lucier, G.; Rizkalla, S. H.; and Zia, P., Jan.-Feb. 2008 78
Bentz, E. C.
—Justification of ACI 446 Proposal for Updating ACI Code Provisions for Shear Design of Reinforced Concrete Beams (Disc. 104-S57) July-Aug. 2008 512
—Strength and Deformation of High-Strength Concrete Shearwalls (Disc. 105-S03) Nov.-Dec. 2008 789
—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Sept.-Oct. 2008 590
Berry, M. P.—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) May-June 2008 270
Bhargava, P.—Investigation of Deep Beams with Various Load Configurations (Disc. 104-S58) July-Aug. 2008 515
Biaxial lateral loading—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541
Birkle, G.—Influence of Slab Thickness on Punching Shear Strength (105-S19) Mar.-Apr. 2008 180
Bisby, L.—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Jan.-Feb. 2008 60
Bischoff, P. H.—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) July-Aug. 2008 498
Bond
—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552
—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008 41
—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552
Bond-slip—Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280
Bond strength
—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634
—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008 68
Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634
Bond stress—Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280
Bradley, B.—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Mar.-Apr. 2008 205
Branco, F. A. B.—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) July-Aug. 2008 471
Breña, S. F.—Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) July-Aug. 2008 460
Bridge columns—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 270
Bridge decks—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Seliem, H. M.; Lucier, G.; Rizkalla, S. H.; and Zia, P., Jan.-Feb. 2008 78
Bridge girder—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
Brittle failure—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96
Broms, C. E.—Distinction between Punching and Flexural Failure Modes of Flat Plates (Disc. 104-S36) Mar.-Apr. 2008 238
Brown, M. D.
—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) July-Aug. 2008 395
—Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) July-Aug. 2008 405

C

Canbolat, B. B.—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Mar.-Apr. 2008 154
Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Cedolin, L.; Cusatis, G.; Eccheli, S.; and Roveda, M., Mar.-Apr. 2008 215
Carbon fiber-reinforced polymer(s)
—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368
—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 3
Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368
Cedolin, L.—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Mar.-Apr. 2008 215
Centrifugally cast—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Qasrawi, Y., and Fam, A., Nov.-Dec. 2008 750
Chan, B. M.—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Jan.-Feb. 2008 30
Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626
Chung, Y.-S.—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Jan.-Feb. 2008 87

Coccia, S.—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) May-June 2008 318

Collapse—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) Yi, W.-J.; He, Q.-F.; Xiao, Y.; Kunnath, S. K., July-Aug. 2008 433

Collins, M. P.—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Sept.-Oct. 2008 590

Column(s)

—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Cedolin, L.; Cusatis, G.; Eccheli, S.; and Roveda, M., Mar.-Apr. 2008 215

—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154

—Optimal Domains for Flexural and Axial Loading (105-S66) Aschheim, M.; Hernández-Montes, E.; and Gil-Martín, L. M., Nov.-Dec. 2008 720

—Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280

—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425

Column failure—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) Yi, W.-J.; He, Q.-F.; Xiao, Y.; Kunnath, S. K., July-Aug. 2008 433

Combined Torsion and Bending in Reinforced and Prestressed Concrete Beams Using Simplified Method for Combined Stress-Resultants (104-S38)

—Rahal, K. N., July-Aug. 2007 402

—Disc. by Solanki, H., May-June 2008 375

Composites—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 3

Compression—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626

Compression yielding—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008 104

Compression zone—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189

Concepts Underlying Reinforced Concrete Design: Time for Reappraisal (104-S63)

—Kotsovos, M. D., Nov.-Dec. 2007 675

—Disc. by Moretti, M. L., Sept.-Oct. 2008 645

Concrete compressive strength—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Muttoni, A., and Fernández Ruiz, M., Mar.-Apr. 2008 163

Concrete crushing—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308

Confinement—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425

Continuous beams—Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Silva, P. F., and Ibell, T. J., Nov.-Dec. 2008 729

Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301

Coogler, K. L.—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) July-Aug. 2008 478

Corrosion—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51

Coupling beams—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Fortney, P. J.; Rassati, G. A.; and Shahrooz, B. M., Nov.-Dec. 2008 781

Cover—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) So, M., and Harmon, T. G., Mar.-Apr. 2008 196

Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) So, M., and Harmon, T. G., Mar.-Apr. 2008 196

Crack—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601

Crack control—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301

Crack cycling—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348

Crack width(s)

—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634

—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Muttoni, A., and Fernández Ruiz, M., Mar.-Apr. 2008 163

Cracked concrete—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348

Cracking

—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189

—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368

—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008 41

Creep—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301

Critical shear crack—Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) Muttoni, A., July-Aug. 2008 440

Cross-section design—Optimal Domains for Flexural and Axial Loading (105-S66) Aschheim, M.; Hernández-Montes, E.; and Gil-Martín, L. M., Nov.-Dec. 2008 720

Curvature

—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008 740

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123

Cusatis, G.—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Mar.-Apr. 2008 215

Cyclic load—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760

Cyclic loading

—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561

—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541

—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 471

—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617

Cyclic shear—Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Martinelli, L., Nov.-Dec. 2008 675

Czaderski, C.—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Jan.-Feb. 2008 51

D

Dagher, F.—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Jan.-Feb. 2008 68

Damage—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 270

Damage avoidance design—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Solberg, K.; Dhakal, R. P.; Bradley, B.; Mander, J. B.; and Li, L., Mar.-Apr. 2008 205

Davoudi, S.—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) May-June 2008 368

Dawood, M.—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Sept.-Oct. 2008 570

Debonding

—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008 41

—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 11

Deflection

—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368

—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338

—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498

Deformation—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008 104

Deformation capacity—Plastic Hinge Length of Reinforced Concrete Columns (105-S28) Bae, S., and Bayrak, O., May-June 2008 290

Delamination—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) So, M., and Harmon, T. G., Mar.-Apr. 2008 196

Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 3

Design

—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 451

—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Kuchma, D.; Yindeesuk, S.; Nagle, T.; Hart, J.; and Lee, H. H., Sept.-Oct. 2008 578

—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 270

—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) Kuchma, D.; Kim, K. S.; Nagle, T. J.; Sun, S.; and Hawkins, N. M., May-June 2008 358

Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 451

Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) Brown, M. D., and Bayrak, O., July-Aug. 2008 395

Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) Brown, M. D., and Bayrak, O., July-Aug. 2008 405

de Souza, R. A.—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 232

de Souza Sánchez Filho, E.

—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 232

—Strut-and-Tie Model Analysis for Strength Prediction of Deep Beams (Disc. 104-S61) Sept.-Oct. 2008 644

Detailing

—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008 740

—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Kuchma, D.; Yindeesuk, S.; Nagle, T.; Hart, J.; and Lee, H. H., Sept.-Oct. 2008 578

Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008 740

Development length—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634

Dhakal, R. P.

—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Nov.-Dec. 2008 740

—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Mar.-Apr. 2008 205

Dilger, W. H.

—Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (Disc. 104-S66) Sept.-Oct. 2008 649

—Influence of Slab Thickness on Punching Shear Strength (105-S19) Mar.-Apr. 2008 180

Displacement—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123

Distinction between Punching and Flexural Failure Modes of Flat Plates (104-S36)

—Stein, T.; Ghali, A.; and Dilger, W., May-June 2007 357

—Disc. by Broms, C. E., Mar.-Apr. 2008 238

—Disc. by Shin, M., and Grossman, J., Mar.-Apr. 2008 240

Drift

—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 270

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123

Drift capacity

—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541

—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617

Duct—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51

Ductility

—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601

—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368

—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008 740

—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008 104

—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Kuang, J. S., and Ho, Y. B., Mar.-Apr. 2008 225

—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123

—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425

—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 259

Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008 104

Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (104-S66)

—Broms, C. E., Nov.-Dec. 2007 703

—Disc. by Dilger, W. H., Sept.-Oct. 2008 649

—Disc. by Gayed, R. B., Sept.-Oct. 2008 650

—Disc. by Ghali, A., Sept.-Oct. 2008 647

—Disc. by Megally, S., Sept.-Oct. 2008 651

—Disc. by Ramos, A. P., Sept.-Oct. 2008 652

Duque, A.—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Mar.-Apr. 2008 189

Durability—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51

Dwairi, H.—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Mar.-Apr. 2008 173

E

Earthquake
—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348
—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601
Eccentric loads—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 259
Eccentric Reinforced Concrete Beam-Column Connections Subjected to Cyclic Loading in Principal Directions (104-S44)
—Lee, H.-J., and Ko, J.-W., July-Aug. 2007.....459
—Disc. by Shin, M., and LaFave, J. M., May-June 2008 380
Eccheli, S.—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Mar.-Apr. 2008.....215
Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008..... 541
Edge connection—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541
Effect of Aggregate Size on Beam-Shear Strength of Thick Slabs (104-S19)
—Sherwood, E. G.; Bentz, E. C.; and Collins, M. P., Mar.-Apr. 2007 ...180
—Disc. by Solanki, H., Jan.-Feb. 2008 115
Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008..... 134
Effect of Shrinkage on Short-Term Deflections of Reinforced Concrete Beams and Slabs (SP-246—10)
—Bischoff, P. H., and Johnson, R. D., Sept. 2007 167
—Disc. by Kaklauskas, G.; Gribniak, V.; and Bacinskas, D., July-Aug. 2008 516
Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) Yang, K.-H., and Ashour, A. F., July-Aug. 2008..... 414
Efficiency factor
—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) Brown, M. D., and Bayrak, O., July-Aug. 2008..... 395
—Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) Brown, M. D., and Bayrak, O., July-Aug. 2008..... 405
Eligehausen, R.
—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) May-June 2008 348
—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Sept.-Oct. 2008 601
Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Silva, P. F., and Ibell, T. J., Nov.-Dec. 2008 729
Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154
Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008 41
Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) Coogler, K. L.; Harries, K. A.; and Gallick, M., July-Aug. 2008 478
Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) Yi, W.-J.; He, Q.-F.; Xiao, Y.; Kunnath, S. K., July-Aug. 2008 433
Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Kuchma, D.; Yindeesuk, S.; Nagle, T.; Hart, J.; and Lee, H. H., Sept.-Oct. 2008..... 578

F

Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (104-S26)
—Breña, S. F., and Morrison, M. C., May-June 2007 267
—Disc. by Muttoni, A.; Kostic, N.; and Fernández Ruiz, M., Mar.-Apr. 2008 233
—Disc. by de Souza, R. A., Mar.-Apr. 2008 232
—Disc. by de Souza Sánchez Filho, E.; Holtz Silva Filho, J. J.; and Gomes Barbosa, M. T., Mar.-Apr. 2008 232
Failure—Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Yang, K.-H., and Ashour, A. F., Sept.-Oct. 2008.....609
Failure probability—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008.....685
Faller, M.—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Jan.-Feb. 2008..... 51
Fam, A.—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Nov.-Dec. 2008 750
Farvashany, F. E.—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Jan.-Feb. 2008..... 21
Fastener—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601
Feldman, L. R.—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Sept.-Oct. 2008 552
Fenwick, R. C.—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Nov.-Dec. 2008.....740
Fernández Ruiz, M.
—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 233
—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Mar.-Apr. 2008 163
—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) May-June 2008.....308
Fiber element—Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Martinelli, L., Nov.-Dec. 2008.....675
Fiber-reinforced concrete
—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) So, M., and Harmon, T. G., Mar.-Apr. 2008 196
—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008..... 41
—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87
Fiber-reinforced polymer(s)
—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008.....634
—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008.....104
—Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Silva, P. F., and Ibell, T. J., Nov.-Dec. 2008 729
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008.....11
—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) Coccia, S.; Iannituberto, U.; and Rinaldi, Z., May-June 2008..... 318
—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008..... 68

Fiber reinforcement—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Haddad, R. H.; Shannag, M. J.; and Al-Hambouth, M. T., Mar.-Apr. 2008 145
Finite element
—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 701
—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338
Finite element model—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189
Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 701
Fire endurance—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Williams, B.; Kodur, V.; Green, M. F.; and Bisby, L., Jan.-Feb. 2008 60
Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Williams, B.; Kodur, V.; Green, M. F.; and Bisby, L., Jan.-Feb. 2008 60
Fire response—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Xiao, J.-Z.; Li, J.; and Huang, Z.-F., Sept.-Oct. 2008 531
Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Xiao, J.-Z.; Li, J.; and Huang, Z.-F., Sept.-Oct. 2008 531
Fire tests—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Williams, B.; Kodur, V.; Green, M. F.; and Bisby, L., Jan.-Feb. 2008 60
Flat-plate
—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561
—Strength Evaluation of Interior Slab-Column Connections (105-S63) Tian, Y.; Jirsa, J. O.; and Bayrak, O., Nov.-Dec. 2008 692
Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems (104-S67)
—Broms, C. E., Nov.-Dec. 2007 712
—Disc. by Gayed, R. B., Sept.-Oct. 2008 657
—Disc. by Ghali, A., Sept.-Oct. 2008 655
—Disc. by Megally, S., Sept.-Oct. 2008 658
—Disc. by Ramos, A. P., Sept.-Oct. 2008 659
Flat slab—Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 180
Flexural cracking—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301
Flexural design—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Qasrawi, Y., and Fam, A., Nov.-Dec. 2008 750
Flexural reinforcement—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617
Flexural-shear—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Seliem, H. M.; Lucier, G.; Rizkalla, S. H.; and Zia, P., Jan.-Feb. 2008 78
Flexural stiffness—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552
Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 11
Flexural strengthening—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 3
Flexure
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626
—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 11
Fortney, P. J.—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Nov.-Dec. 2008 781
Foster, S. J.—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Jan.-Feb. 2008 21
Fracture mechanics—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008 685
Frame
—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) Yi, W.-J.; He, Q.-F.; Xiao, Y.; Kunnath, S. K., July-Aug. 2008 433
—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Xiao, J.-Z.; Li, J.; and Huang, Z.-F., Sept.-Oct. 2008 531
Frosch, R. J.—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Sept.-Oct. 2008 634
FRP strengthening—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Williams, B.; Kodur, V.; Green, M. F.; and Bisby, L., Jan.-Feb. 2008 60
FRP tube—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Qasrawi, Y., and Fam, A., Nov.-Dec. 2008 750

G

Galano, L.—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) May-June 2008 259
Gallick, M.—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) July-Aug. 2008 478
Gayed, R. B.
—Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (Disc. 104-S66) Sept.-Oct. 2008 650
—Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems (Disc. 104-S67) Sept.-Oct. 2008 657
—Lattice Shear Reinforcement for Slab-Column Connections (Disc. 104-S29) Mar.-Apr. 2008 237
Ghali, A.
—Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (Disc. 104-S66) Sept.-Oct. 2008 647
—Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems (Disc. 104-S67) Sept.-Oct. 2008 655
Gheorghiu, C.—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) May-June 2008 368
Gilbert, R. I.—Control of Flexural Cracking in Reinforced Concrete (105-S29) May-June 2008 301
Gil-Martín, L. M.—Optimal Domains for Flexural and Axial Loading (105-S66) Nov.-Dec. 2008 720
Gomes Barbosa, M. T.—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 232
Green, M. F.—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Jan.-Feb. 2008 60
Gribniak, V.—Effect of Shrinkage on Short-Term Deflections of Reinforced Concrete Beams and Slabs (Disc. SP-246—10) July-Aug. 2008 516

Grossman, J.—Distinction between Punching and Flexural Failure Modes of Flat Plates (Disc. 104-S36) Mar.-Apr. 2008 240
Grout—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Gulec, C. K.—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) July-Aug. 2008 488

H

Haddad, R. H.—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Mar.-Apr. 2008 145
Harajli, M. H.
—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) May-June 2008 338
—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Nov.-Dec. 2008 760
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Jan.-Feb. 2008 68
Harmon, T. G.—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) Mar.-Apr. 2008 196
Harries, K. A.—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) July-Aug. 2008 478
Hart, J.—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Sept.-Oct. 2008 578
Hassan, T. K.—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Mar.-Apr. 2008 173
Hawkins, N. M.—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) May-June 2008 358
He, Q.-F.—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) July-Aug. 2008 433
Hernández-Montes, E.—Optimal Domains for Flexural and Axial Loading (105-S66) Nov.-Dec. 2008 720
High-performance concrete—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Xiao, J.-Z.; Li, J.; and Huang, Z.-F., Sept.-Oct. 2008 531
High-performance steel—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Hassan, T. K.; Seliem, H. M.; Dwairi, H.; Rizkalla, S. H.; and Zia, P., Mar.-Apr. 2008 173
High-strength concrete
—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008 368
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626
—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 134
—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338
—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) Kuchma, D.; Kim, K. S.; Nagle, T. J.; Sun, S.; and Hawkins, N. M., May-June 2008 358
—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Farvashany, F. E.; Foster, S. J.; and Rangan, B. V., Jan.-Feb. 2008 21
—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 259
High-strength reinforcement—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
High-strength steel
—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Hassan, T. K.; Seliem, H. M.; Dwairi, H.; Rizkalla, S. H.; and Zia, P., Mar.-Apr. 2008 173
Ho, Y. B.—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Mar.-Apr. 2008 225
Hoehler, M. S.
—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) May-June 2008 348
—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Sept.-Oct. 2008 601
Holtz Silva Filho, J. J.—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 232
Huang, Z.-F.—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Sept.-Oct. 2008 531
Hwang, C.-L.—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) July-Aug. 2008 425

I

Ianniruberto, U.—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) May-June 2008 318
Ibell, T. J.—Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Nov.-Dec. 2008 729
Influence of Shear Reinforcement on Reinforced Concrete Continuous Deep Beams (104-S40)
—Yang, K.-H.; Chung, H.-S.; and Ashour, A. F., July-Aug. 2007 420
—Disc. by Solanki, H., May-June 2008 378
Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 180
Integrity requirements—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96
Interface—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 471
Interior slab-column connection—Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) Muttoni, A., July-Aug. 2008 440
Investigation of Deep Beams with Various Load Configurations (104-S58)
—Brown, M. D., and Bayrak, O., Sept.-Oct. 2007 611
—Disc. by Sahoo, D. K.; Singh, B.; and Bhargava, P., July-Aug. 2008 515
Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Fortney, P. J.; Rassati, G. A.; and Shahrooz, B. M., Nov.-Dec. 2008 781

J

Jacketing—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 471
Jerônimo Holtz Silva Filho, J.—Strut-and-Tie Model Analysis for Strength Prediction of Deep Beams (Disc. 104-S61) Sept.-Oct. 2008 644
Jirsa, J. O.
—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Sept.-Oct. 2008 561
—Strength Evaluation of Interior Slab-Column Connections (105-S63) Nov.-Dec. 2008 692
Joint—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154
Júlio, E. N. B. S.—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) July-Aug. 2008 471
Justification of ACI 446 Proposal for Updating ACI Code Provisions for Shear Design of Reinforced Concrete Beams (104-S57)
—Bažant, Z. P.; Yu, Q.; Gerstle, W.; Hanson, J.; and Ju, J. W., Sept.-Oct. 2007 601
—Disc. by Bentz, E. C., July-Aug. 2008 512

K

Kaklauskas, G.—Effect of Shrinkage on Short-Term Deflections of Reinforced Concrete Beams and Slabs (Disc. SP-246—10) July-Aug. 2008 516

Kang, T. H.-K.—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Sept.-Oct. 2008 617

Khalil, Z.—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Nov.-Dec. 2008 760

Kim, J.—Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Nov.-Dec. 2008 770

Kim, K. S.—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) May-June 2008 358

Kim, U.-Y.—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Mar.-Apr. 2008 134

Klein, G.—Thermal Movements in Parking Structures (Disc. 104-S51) July-Aug. 2008 507

Kodur, V.—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Jan.-Feb. 2008 60

Kostic, N.—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008 233

Kuang, J. S.—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Mar.-Apr. 2008 225

Kuchma, D. A.
—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) July-Aug. 2008 451
—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Sept.-Oct. 2008 578
—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) May-June 2008 358

Kunnath, S. K.—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) July-Aug. 2008 433

L

LaFave, J. M.
—Eccentric Reinforced Concrete Beam-Column Connections Subjected to Cyclic Loading in Principal Directions (Disc. 104-S44) May-June 2008 380
—Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Nov.-Dec. 2008 770
—Test of High-Rise Core Wall: Effective Stiffness for Seismic Analysis (Disc. 104-S52) July-Aug. 2008 509

Lap splice—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87

Large displacements—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Bailey, C. G.; Toh, W. S.; and Chan, B. M., Jan.-Feb. 2008 30

Lateral drift capacity—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561

Lateral loading—Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Kim, J., and LaFave, J. M., Nov.-Dec. 2008 770

Lateral loads—Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280

Lateral respoonse—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617

Lateral strength—Strength Evaluation of Interior Slab-Column Connections (105-S63) Tian, Y.; Jirsa, J. O.; and Bayrak, O., Nov.-Dec. 2008 692

Lattice Shear Reinforcement for Slab-Column Connections (104-S29)
—Park, H.-g.; Ahn, K.-s.; Choi, K.-k.; and Chung, L., May-June 2007 294
—Disc. by Gayed, R. B., Mar.-Apr. 2008 237

Lee, H. H.—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Sept.-Oct. 2008 578

Lee, H. J.—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) July-Aug. 2008 451

Lee, J.-Y.—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Mar.-Apr. 2008 134

Lehman, D. E.
—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) May-June 2008 270
—Test of High-Rise Core Wall: Effective Stiffness for Seismic Analysis (Disc. 104-S52) July-Aug. 2008 509

Li, J.—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Sept.-Oct. 2008 531

Li, L.—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Mar.-Apr. 2008 205

Lin, C.-H.—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) July-Aug. 2008 425

Lin, S.-P.—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) July-Aug. 2008 425

Lindenberg, R.—Thermal Movements in Parking Structures (Disc. 104-S51) July-Aug. 2008 507

Liu, C.-H.—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) July-Aug. 2008 425

Load
—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008 68

Load capacity—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) Yang, K.-H., and Ashour, A. F., July-Aug. 2008 414

Load redistribution—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96

Loading—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626

Loading history—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498

Lowes, L. N.—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) May-June 2008 270

Lucier, G.—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Jan.-Feb. 2008 78

Lúcio, V. J. G.—Punching of Post-Tensioned Slabs—Tests and Codes (Disc. 104-S13) Jan.-Feb. 2008 111

Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 270

M

Mander, J. B.—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Mar.-Apr. 2008 205

Marti, P.—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Jan.-Feb. 2008 51

Martinelli, L.—Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Nov.-Dec. 2008 675

Mast, R. F.—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Sept.-Oct. 2008 570

Material strain—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008.....740
Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Yang, K.-H., and Ashour, A. F., Sept.-Oct. 2008.....609
Megally, S.
—Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (Disc. 104-S66) Sept.-Oct. 2008.....651
—Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems (Disc. 104-S67) Sept.-Oct. 2008.....658
Membrane action—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Bailey, C. G.; Toh, W. S.; and Chan, B. M., Jan.-Feb. 2008.....30
Mertol, H. C.—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Sept.-Oct. 2008.....626
Meyer, C.—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Jan.-Feb. 2008.. 87
Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008.....685
Mirmiran, A.—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Sept.-Oct. 2008.....626
Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Martinelli, L., Nov.-Dec. 2008.....675
Modulus—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008... 701
Moment redistribution
—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008.....368
—Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Silva, P. F., and Ibell, T. J., Nov.-Dec. 2008.....729
—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) Coccia, S.; Iannirubertо, U.; and Rinaldi, Z., May-June 2008.....318
Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008.....327
Moretti, M. L.—Concepts Underlying Reinforced Concrete Design: Time for Reappraisal (Disc. 104-S63) Sept.-Oct. 2008.....645
Mosley, C. P.—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Sept.-Oct. 2008.....634
Motavalli, M.—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Jan.-Feb. 2008.....51
Multi-level seismic performance assessment—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Solberg, K.; Dhakal, R. P.; Bradley, B.; Mander, J. B.; and Li, L., Mar.-Apr. 2008.....205
Muttoni, A.
—Factors Affecting Strength of Elements Designed Using Strut-and-Tie Models (Disc. 104-S26) Mar.-Apr. 2008.....233
—Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) July-Aug. 2008.....440
—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Mar.-Apr. 2008.....163
—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) May-June 2008.....308

N

Nadjai, A.—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Nov.-Dec. 2008.....701
Nagle, T. J.
—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Sept.-Oct. 2008.....578
—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) May-June 2008.....358
Nanni, A.
—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Jan.-Feb. 2008.....3
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Jan.-Feb. 2008.....11
Nassif, H.—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) May-June 2008.....338
Nonlinear analysis—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008.....338
Nonlinear finite element analysis—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008...451
Novak, L. C.—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) July-Aug. 2008.....451

O

Optimal Domains for Flexural and Axial Loading (105-S66) Aschheim, M.; Hernández-Montes, E.; and Gil-Martín, L. M., Nov.-Dec. 2008.....720
Ozkul, O.—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) May-June 2008.....338

P

Park, C. K.—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Jan.-Feb. 2008.....87
Pier—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008.....87
Plastic hinge
—Detailing of Plastic Hinges in Seismic Design of Concrete Structures (105-S68) Dhakal, R. P., and Fenwick, R. C., Nov.-Dec. 2008.....740
—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008.....123
Plastic-hinge length
—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008.....270
—Plastic Hinge Length of Reinforced Concrete Columns (105-S28) Bae, S., and Bayrak, O., May-June 2008.....290
Plastic Hinge Length of Reinforced Concrete Columns (105-S28) Bae, S., and Bayrak, O., May-June 2008.....290
Plastic rotation—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008.....270
Pole—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Qasrawi, Y., and Fam, A., Nov.-Dec. 2008.....750
Polymer—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) So, M., and Harmon, T. G., Mar.-Apr. 2008.....196
Poologasingam, N.—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Mar.-Apr. 2008.....189
Post-tensioning
—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008.....308
—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008.....51
Premature—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008.....11
Prestressed—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Rosenboom, O., and Rizkalla, S. H., Jan.-Feb. 2008.....41
Prestressed concrete
—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) Davoudi, S.; Svecova, D.; and Gheorghiu, C., May-June 2008.....368

—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338
—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) Kuchma, D.; Kim, K. S.; Nagle, T. J.; Sun, S.; and Hawkins, N. M., May-June 2008 358
—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Prestressing—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 11
Prestressing mechanical device—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 3
Prestressing steel—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Kim, J., and LaFave, J. M., Nov.-Dec. 2008 770
Progressive collapse—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96
Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Sasani, M., and Sagiroglu, S., Jan.-Feb. 2008 96
Punching—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Seliem, H. M.; Lucier, G.; Rizkalla, S. H.; and Zia, P., Jan.-Feb. 2008 78
Punching failure—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617
Punching of Post-Tensioned Slabs—Tests and Codes (104-S13)
—Silva, R. J. C.; Regan, P. E.; and Melo, G. S. S. A., Mar.-Apr. 2007 . 123
—Disc. by Ramos, A. P., and Lúcio, V. J. G., Jan.-Feb. 2008 111
Punching shear
—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541
—Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 180
—Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) Muttoni, A., July-Aug. 2008 440
Punching Shear Response of High-Performance Fiber-Reinforced Cementitious Composite Slabs (104-S18)
—Naaman, A.; Likhitruangsilp, V.; and Parra-Montesinos, G., Mar.-Apr. 2007 170
—Disc. by Theodorakopoulos, D., and Swamy, N., Jan.-Feb. 2008 113
Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) Muttoni, A., July-Aug. 2008 .. 440
Punching strength—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561

Q

Qasrawi, Y.—Flexural Load Tests on New Spun-Cast Concrete-Filled Fiber-Reinforced Polymer Tubular Poles (105-S69) Nov.-Dec. 2008 .. 750
Quasi-earthquake displacement—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Solberg, K.; Dhakal, R. P.; Bradley, B.; Mander, J. B.; and Li, L., Mar.-Apr. 2008 205

R

Rafi, M. M.—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Nov.-Dec. 2008 701
Ramos, A. P.
—Ductility of Flat Plates: Comparison of Shear Reinforcement Systems (Disc. 104-S66) Sept.-Oct. 2008 652
—Flat Plates in Seismic Areas: Comparison of Shear Reinforcement Systems (Disc. 104-S67) Sept.-Oct. 2008 659
—Punching of Post-Tensioned Slabs—Tests and Codes (Disc. 104-S13) Jan.-Feb. 2008 111
Rangan, B. V.—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Jan.-Feb. 2008 21
Rassati, G. A.—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Nov.-Dec. 2008 781
Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338
Rectangular column—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541
Rectangular stress block—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 626
Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) Coccia, S.; Ianniruberto, U.; and Rinaldi, Z., May-June 2008 318
Reinforced concrete
—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 634
—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301
—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 451
—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Wu, Y.-F., Jan.-Feb. 2008 104
—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 134
—Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Martinelli, L., Nov.-Dec. 2008 675
—Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280
—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87
—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Kuang, J. S., and Ho, Y. B., Mar.-Apr. 2008 225
—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617
—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 711
—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) Gulec, C. K.; Whittaker, A. S.; and Stojadinovic, B., July-Aug. 2008 488
Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 471
Reinforcement
—Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 180
—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) Coccia, S.; Ianniruberto, U.; and Rinaldi, Z., May-June 2008 318
Reinforcement bar—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) Coogler, K. L.; Harries, K. A.; and Gallick, M., July-Aug. 2008 478
Reinforcement detailing—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Fortney, P. J.; Rassati, G. A.; and Shahrooz, B. M., Nov.-Dec. 2008 781
Reinforcement Slip in Reinforced Concrete Columns (105-S27) Sezen, H., and Setzler, E. J., May-June 2008 280

Reinforcing bars—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 570
Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Haddad, R. H.; Shannag, M. J.; and Al-Hambouth, M. T., Mar.-Apr. 2008 145
Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87
Rinaldi, Z.—Redistribution of Bending Moment in Continuous Reinforced Concrete Beams Strengthened with Fiber-Reinforced Polymer (105-S31) May-June 2008 318
Rizkalla, S. H.
—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Jan.-Feb. 2008 78
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Sept.-Oct. 2008 626
—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Jan.-Feb. 2008 .. 41
—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Sept.-Oct. 2008 570
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Mar.-Apr. 2008 173
Rosenboom, O.—Experimental Study of Intermediate Crack Debonding in Fiber-Reinforced Polymer Strengthened Beams (105-S05) Jan.-Feb. 2008 41
Roveda, M.—Capacity of Rectangular Cross Sections under Biaxially Eccentric Loads (105-S23) Mar.-Apr. 2008 215
Roy, N. C.—Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) July-Aug. 2008 460

S

Safety—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 590
Sagiroglu, S.—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Jan.-Feb. 2008 96
Sahoo, D. K.—Investigation of Deep Beams with Various Load Configurations (Disc. 104-S58) July-Aug. 2008 515
Sasani, M.—Progressive Collapse of Reinforced Concrete Structures: A Multihazard Perspective (105-S11) Jan.-Feb. 2008 96
Scaling of failure—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008 685
Scanlon, A.—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) July-Aug. 2008 498
Seismic
—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154
—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008 327
—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008 68
Seismic behavior—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Kuang, J. S., and Ho, Y. B., Mar.-Apr. 2008 225
Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Kuang, J. S., and Ho, Y. B., Mar.-Apr. 2008 225
Seismic design—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Fortney, P. J.; Rassati, G. A.; and Shahrooz, B. M., Nov.-Dec. 2008 781
Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760
Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Solberg, K.; Dhakal, R. P.; Bradley, B.; Mander, J. B.; and Li, L., Mar.-Apr. 2008 205
Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123
Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617
Seismic resistance—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Xiao, J.-Z.; Li, J.; and Huang, Z.-F., Sept.-Oct. 2008 531
Seismic response
—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 471
—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760
Seismic retrofit—Seismic FRP Retrofit of Bond-Critical Regions in Circular RC Columns: Validation of Proposed Design Methods (105-S70) Harajli, M. H., and Khalil, Z., Nov.-Dec. 2008 760
Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008 68
Self-consolidating concrete
—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425
—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 259
Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425
Seliem, H. M.
—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Jan.-Feb. 2008 78
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Mar.-Apr. 2008 173
Serviceability—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301
Setzler, E. J.—Reinforcement Slip in Reinforced Concrete Columns (105-S27) May-June 2008 280
Sezen, H.—Reinforcement Slip in Reinforced Concrete Columns (105-S27) May-June 2008 280
Shahrooz, B. M.—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Nov.-Dec. 2008 781
Shannag, M. J.—Repair of Reinforced Concrete Beams Damaged by Alkali-Silica Reaction (105-S15) Mar.-Apr. 2008 145
Shear
—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 451
—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) Yang, K.-H., and Ashour, A. F., July-Aug. 2008 414
—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Canbolat, B. B., and Wight, J. K., Mar.-Apr. 2008 154
—Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 180
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Hassan, T. K.; Seliem, H. M.; Dwairi, H.; Rizkalla, S. H.; and Zia, P., Mar.-Apr. 2008 173
—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 711

—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) Kuchma, D.; Kim, K. S.; Nagle, T. J.; Sun, S.; and Hawkins, N. M., May-June 2008 358
—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 590
Shear (beams)—Bond in Flexural Members with Plain Steel Reinforcement (105-S51) Feldman, L. R., and Bartlett, F. M., Sept.-Oct. 2008 552
Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Hassan, T. K.; Seliem, H. M.; Dwairi, H.; Rizkalla, S. H.; and Zia, P., Mar.-Apr. 2008 173
Shear failure—Probabilistic Joint Shear Strength Models for Design of RC Beam-Column Connections (105-S71) Kim, J., and LaFave, J. M., Nov.-Dec. 2008 770
Shear-flexure interaction—Modeling Shear-Flexure Interaction in Reinforced Concrete Elements Subjected to Cyclic Lateral Loading (105-S61) Martinelli, L., Nov.-Dec. 2008 675
Shear reinforcement
—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 134
—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Kang, T. H.-K., and Wallace, J. W., Sept.-Oct. 2008 617
Shear span-depth ratio—Seismic Performance of Full-Scale Reinforced Concrete Columns (105-S13) Bae, S., and Bayrak, O., Mar.-Apr. 2008 123
Shear strength
—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008 685
—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008 327
—Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Muttoni, A., and Fernández Ruiz, M., Mar.-Apr. 2008 163
—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) Gulec, C. K.; Whittaker, A. S.; and Stojadinovic, B., July-Aug. 2008 488
—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Farvashany, F. E.; Foster, S. J.; and Rangan, B. V., Jan.-Feb. 2008 21
Shear Strength of Members without Transverse Reinforcement as Function of Critical Shear Crack Width (105-S17) Muttoni, A., and Fernández Ruiz, M., Mar.-Apr. 2008 163
Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 711
Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) Gulec, C. K.; Whittaker, A. S.; and Stojadinovic, B., July-Aug. 2008 488
Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) Kuchma, D.; Kim, K. S.; Nagle, T. J.; Sun, S.; and Hawkins, N. M., May-June 2008 358
Shearwalls—Strength and Deformation of High-Strength Concrete Shearwalls (105-S03) Farvashany, F. E.; Foster, S. J.; and Rangan, B. V., Jan.-Feb. 2008 21
Sherwood, E. G.—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Sept.-Oct. 2008 590
Shin, M.
—Distinction between Punching and Flexural Failure Modes of Flat Plates (Disc. 104-S36) Mar.-Apr. 2008 240
—Eccentric Reinforced Concrete Beam-Column Connections Subjected to Cyclic Loading in Principal Directions (Disc. 104-S44) May-June 2008 380
Shrinkage—Control of Flexural Cracking in Reinforced Concrete (105-S29) Gilbert, R. I., May-June 2008 301
Shrinkage restraint—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498
Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498
Silva, P. F.
—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Jan.-Feb. 2008 3
—Evaluation of Moment Distribution in Continuous Fiber-Reinforced Polymer-Strengthened Concrete Beams (105-S67) Nov.-Dec. 2008 ..729
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Jan.-Feb. 2008 11
Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Bailey, C. G.; Toh, W. S.; and Chan, B. M., Jan.-Feb. 2008 30
Singh, B.—Investigation of Deep Beams with Various Load Configurations (Disc. 104-S58) July-Aug. 2008 515
Size effect
—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008 685
—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 590
Slab(s)
—Shrinkage Restraint and Loading History Effects on Deflections of Flexural Members (105-S48) Scanlon, A., and Bischoff, P. H., July-Aug. 2008 498
—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Bailey, C. G.; Toh, W. S.; and Chan, B. M., Jan.-Feb. 2008 30
Slab-column connection
—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Tian, Y.; Jirsa, J. O.; Bayrak, O.; Widianto; and Argudo, J. F., Sept.-Oct. 2008 561
—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Anggadjaja, E., and Teng, S., Sept.-Oct. 2008 541
—Strength Evaluation of Interior Slab-Column Connections (105-S63) Tian, Y.; Jirsa, J. O.; and Bayrak, O., Nov.-Dec. 2008 692
Slender columns—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 259
Slenderness Effects in Reinforced Concrete Beams (104-S39)
—Revathi, P., and Menon, D., July-Aug. 2007 412
—Disc. by Solanki, H., May-June 2008 377
—Disc. by Subramanian, N., May-June 2008 376
Smeared crack—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 .. 701
So, M.—Cover Delamination of Reinforced Concrete Members with Surface-Mounted Fiber-Reinforced Polymer Reinforcement (105-S21) Mar.-Apr. 2008 196
Solanki, H.
—Combined Torsion and Bending in Reinforced and Prestressed Concrete Beams Using Simplified Method for Combined Stress-Resultants (Disc. 104-S38) May-June 2008 375
—Effect of Aggregate Size on Beam-Shear Strength of Thick Slabs (Disc. 104-S19) Jan.-Feb. 2008 115
—Influence of Shear Reinforcement on Reinforced Concrete Continuous Deep Beams (Disc. 104-S40) May-June 378
—Slenderness Effects in Reinforced Concrete Beams (Disc. 104-S39) May-June 2008 377
—Strut-and-Tie Model Analysis for Strength Prediction of Deep Beams (Disc. 104-S61) Sept.-Oct. 2008 643
—Test of High-Rise Core Wall: Effective Stiffness for Seismic Analysis (Disc. 104-S52) July-Aug. 2008 508
—Unified Shear Strength Model for Reinforced Concrete Beams—Part I: Development (Disc. 104-S15) Jan.-Feb. 2008 112

—Unified Shear Strength Model for Reinforced Concrete Beams—Part II: Verification and Simplified Method (Disc. 104-S16) Jan.-Feb. 2008 ...113
Solberg, K.—Seismic Performance of Damage-Protected Beam-Column Joints (105-S22) Mar.-Apr. 2008 ... 205
Span—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 ... 134
Splice—Experimental Study of Offset Mechanical Lap Splice Behavior (105-S46) Coogler, K. L.; Harries, K. A.; and Gallick, M., July-Aug. 2008 ... 478
Splice length—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Mosley, C. P.; Tureyen, A. K.; and Frosch, R. J., Sept.-Oct. 2008 ... 634
Squat shear walls—Seismic Behavior and Ductility of Squat Reinforced Concrete Shear Walls with Nonseismic Detailing (105-S24) Kuang, J. S., and Ho, Y. B., Mar.-Apr. 2008 ... 225
Squat walls—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) Gulec, C. K.; Whittaker, A. S.; and Stojadinovic, B., July-Aug. 2008 ... 488
Statistical analysis—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Bažant, Z. P., and Yu, Q., Nov.-Dec. 2008 ... 685
Stiffness—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 ... 701
Stojadinovic, B.—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) July-Aug. 2008 ... 488
Strain
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 ... 626
—Lumped-Plasticity Models for Performance Simulation of Bridge Columns (105-S26) Berry, M. P.; Lehman, D. E.; and Lowes, L. N., May-June 2008 ... 270
—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008 ... 327
Strain effect—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 ... 590
Strain energy—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) Brown, M. D., and Bayrak, O., July-Aug. 2008 ... 395
Strength
—Seismic Strengthening of Bond-Critical Regions in Rectangular Reinforced Concrete Columns Using Fiber-Reinforced Polymer Wraps (105-S08) Harajli, M. H., and Dagher, F., Jan.-Feb. 2008 ... 68
—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 ... 711
Strength and Deformation of High-Strength Concrete Shearwalls (105-S03)
—Farvashany, F. E.; Foster, S. J.; and Rangan, B. V., Jan.-Feb. 2008 ... 21
—Disc. by Bentz, E. C., Nov.-Dec. 2008 ... 789
Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) Galano, L., and Vignoli, A., May-June 2008 ... 259
Strength degradation—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) Gulec, C. K.; Whittaker, A. S.; and Stojadinovic, B., July-Aug. 2008 ... 488
Strength design—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Mast, R. F.; Dawood, M.; Rizkalla, S. H.; and Zia, P., Sept.-Oct. 2008 ... 570
Strength Evaluation of Interior Slab-Column Connections (105-S63) Tian, Y.; Jirsa, J. O.; and Bayrak, O., Nov.-Dec. 2008 ... 692
Strengthening
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Yu, P.; Silva, P. F.; and Nanni, A., Jan.-Feb. 2008 ... 11
—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 ... 471
Stress
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Mertol, H. C.; Rizkalla, S.; Zia, P.; and Mirmiran, A., Sept.-Oct. 2008 ... 626
—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 ... 701
Stress field—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 ... 308
Structural concrete
—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) Brown, M. D., and Bayrak, O., July-Aug. 2008 ... 395
—Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) Brown, M. D., and Bayrak, O., July-Aug. 2008 ... 405
Strut-and-tie
—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Kuchma, D.; Yindeesuk, S.; Nagle, T.; Hart, J.; and Lee, H. H., Sept.-Oct. 2008 ... 578
—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) Alcocer, S. M., and Uribe, C. M., May-June 2008 ... 327
—Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 ... 590
Strut-and-tie model
—Behavior of Deep Beams with Short Longitudinal Bar Anchorages (105-S44) Roy, N. C., and Breña, S. F., July-Aug. 2008 ... 460
—Design and Analysis of Heavily Loaded Reinforced Concrete Link Beams for Burj Dubai (105-S43) Lee, H. J.; Kuchma, D. A.; Baker, W.; and Novak, L. C., July-Aug. 2008 ... 451
Strut-and-Tie Model Analysis for Strength Prediction of Deep Beams (104-S61)
—Park, J.-w., and Kuchma, D., Nov.-Dec. 2007 ... 657
—Disc. by de Souza Sánchez Filho, E.; Jerônimo Holtz Silva Filho, J.; and Barbosa Ferraz Cavalcanti, A., Sept.-Oct. 2008 ... 644
—Disc. by Solanki, H., Sept.-Oct. 2008 ... 643
Strut-and-tie modeling
—Design of Deep Beams Using Strut-and-Tie Models—Part I: Evaluating U.S. Provisions (105-S37) Brown, M. D., and Bayrak, O., July-Aug. 2008 ... 395
—Design of Deep Beams Using Strut-and-Tie Models—Part II: Design Recommendations (105-S38) Brown, M. D., and Bayrak, O., July-Aug. 2008 ... 405
Stud—Influence of Slab Thickness on Punching Shear Strength (105-S19) Birkle, G., and Dilger, W. H., Mar.-Apr. 2008 ... 180
Subramanian, N.—Slenderness Effects in Reinforced Concrete Beams (Disc. 104-S39) May-June 2008 ... 376
Sun, S.—Shear Tests on High-Strength Prestressed Bulb-Tee Girders: Strengths and Key Observations (105-S35) May-June 2008 ... 358
Surface preparation—Reinforced Concrete Jacketing—Interface Influence on Cyclic Loading Response (105-S45) Júlio, E. N. B. S., and Branco, F. A. B., July-Aug. 2008 ... 471
Svecova, D.—Carbon Fiber-Reinforced Polymer Prestressed Prisms as Reinforcement in Continuous Concrete T-Beams (105-S36) May-June 2008 ... 368
Swamy, N.—Punching Shear Response of High-Performance Fiber-Reinforced Cementitious Composite Slabs (Disc. 104-S18) Jan.-Feb. 2008 ... 113

T

Takuwa, D.—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Mar.-Apr. 2008 ... 189
Tanchan, P.—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) May-June 2008 ... 338
Tanks—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 ... 189

Tatematsu, H.—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Mar.-Apr. 2008 189
T-beams—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Williams, B.; Kodur, V.; Green, M. F.; and Bisby, L., Jan.-Feb. 2008 60
Temperature—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189
Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Tendons—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
Teng, S.—Edge-Column Slab Connections under Gravity and Lateral Loading (105-S50) Sept.-Oct. 2008 541
Tensile reinforcement—Effect of Longitudinal Tensile Reinforcement Ratio and Shear Span-Depth Ratio on Minimum Shear Reinforcement in Beams (105-S14) Lee, J.-Y., and Kim, U.-Y., Mar.-Apr. 2008 134
Tension
—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601
—Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Yang, K.-H., and Ashour, A. F., Sept.-Oct. 2008 609
Tension softening—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189
Tension stiffening—Analysis and Design for Spill Condition of Liquefied Natural Gas Storage Tank (105-S20) Poologasingam, N.; Tatematsu, H.; Takuwa, D.; and Duque, A., Mar.-Apr. 2008 189
Test—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Marti, P.; Ullner, R.; Faller, M.; Czaderski, C.; and Motavalli, M., Jan.-Feb. 2008 51
Test of High-Rise Core Wall: Effective Stiffness for Seismic Analysis (104-S52)
—Adebar, P.; Ibrahim, A. M. M.; and Bryson, M., Sept.-Oct. 2007 549
—Disc. by LaFave, J. M., and Lehman, D. E., July-Aug. 2008 509
—Disc. by Solanki, H., July-Aug. 2008 508
Testing
—Behavior and Testing of Anchors in Simulated Seismic Cracks (105-S34) Hoehler, M. S., and Eligehausen, R., May-June 2008 348
—Behavior of Anchors in Cracked Concrete under Tension Cycling at Near-Ultimate Loads (105-S56) Hoehler, M. S., and Eligehausen, R., Sept.-Oct. 2008 601
—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
Theodorakopoulos, D.—Punching Shear Response of High-Performance Fiber-Reinforced Cementitious Composite Slabs (Disc. 104-S18) Jan.-Feb. 2008 113
Thermal analysis—Finite Element Modeling of Carbon Fiber-Reinforced Polymer Reinforced Concrete Beams under Elevated Temperatures (105-S64) Rafi, M. M.; Nadjai, A.; and Ali, F., Nov.-Dec. 2008 701
Thermal Movements in Parking Structures (104-S51)
—Iqbal, M., Sept.-Oct. 2007 542
—Disc. by Klein, G., and Lindenberg, R., July-Aug. 2008 507
Tian, Y.
—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Sept.-Oct. 2008 561
—Strength Evaluation of Interior Slab-Column Connections (105-S63) Nov.-Dec. 2008 692
Toh, W. S.—Simplified and Advanced Analysis of Membrane Action of Concrete Slabs (105-S04) Jan.-Feb. 2008 30
Transverse confinement—Residual Seismic Performance of Reinforced Concrete Bridge Piers After Moderate Earthquakes (105-S10) Chung, Y.-S.; Park, C. K.; and Meyer, C., Jan.-Feb. 2008 87
Tureyen, A. K.—Bond Strength of Nonmetallic Reinforcing Bars (105-S60) Sept.-Oct. 2008 634
Two-way shear—Punching Shear Strength of Reinforced Concrete Slabs without Transverse Reinforcement (105-S42) Muttoni, A., July-Aug. 2008 440
Two-way shear strength—Strength Evaluation of Interior Slab-Column Connections (105-S63) Tian, Y.; Jirsa, J. O.; and Bayrak, O., Nov.-Dec. 2008 692

U

Ullner, R.—Temporary Corrosion Protection and Bond of Prestressing Steel (105-S06) Jan.-Feb. 2008 51
Unbonded tendon—Rational Approach for Predicting Stress in Beams with Unbonded Tendons (105-S33) Ozkul, O.; Nassif, H.; Tanchan, P.; and Harajli, M., May-June 2008 338
Unified Shear Strength Model for Reinforced Concrete Beams—Part I: Development (104-S15)
—Choi, K.-K.; Park, H.-G.; and Wight, J. K., Mar.-Apr. 2007 142
—Disc. by Solanki, H., Jan.-Feb. 2008 112
Unified Shear Strength Model for Reinforced Concrete Beams—Part II: Verification and Simplified Method (104-S16)
—Choi, K.-K., and Park, H.-G., Mar.-Apr. 2007 153
—Disc. by Solanki, H., Jan.-Feb. 2008 113
Uniform load—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Zararis, P. D., and Zararis, I. P., Nov.-Dec. 2008 711
Uribe, C. M.—Monolithic and Cyclic Behavior of Deep Beams Designed Using Strut-and-Tie Models (105-S32) May-June 2008 327

V

Validation—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Kuchma, D.; Yindeesuk, S.; Nagle, T.; Hart, J.; and Lee, H. H., Sept.-Oct. 2008 578
Vignoli, A.—Strength and Ductility of HSC and SCC Slender Columns Subjected to Short-Term Eccentric Load (105-S25) May-June 2008 259

W

Wallace, J. W.—Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups (105-S58) Sept.-Oct. 2008 617
Walls—Investigation on Effect of Transverse Reinforcement on Performance of Diagonally Reinforced Coupling Beams (105-S72) Fortney, P. J.; Rassati, G. A.; and Shahrooz, B. M., Nov.-Dec. 2008 781
Web—Shear Strength of Thin-Webbed Post-Tensioned Beams (105-S30) Fernández Ruiz, M., and Muttoni, A., May-June 2008 308
Web reinforcement—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) Yang, K.-H., and Ashour, A. F., July-Aug. 2008 414
Where is Shear Reinforcement Required? Review of Research Results and Design Procedures (105-S55) Collins, M. P.; Bentz, E. C.; and Sherwood, E. G., Sept.-Oct. 2008 590
Whittaker, A. S.—Shear Strength of Squat Rectangular Reinforced Concrete Walls (105-S47) July-Aug. 2008 488
Widianto—Behavior of Slab-Column Connections of Existing Flat-Plate Structures (105-S52) Sept.-Oct. 2008 561
Wight, J. K.—Experimental Investigation on Seismic Behavior of Eccentric Reinforced Concrete Beam-Column-Slab Connections (105-S16) Mar.-Apr. 2008 154
Williams, B.—Fire Endurance of Fiber-Reinforced Polymer Strengthened Concrete T-Beams (105-S07) Jan.-Feb. 2008 60
Workability—Self-Consolidating Concrete Columns under Concentric Compression (105-S40) Lin, C.-H.; Hwang, C.-L.; Lin, S.-P.; and Liu, C.-H., July-Aug. 2008 425
Wu, Y.-F.—Ductility Demand of Compression Yielding Fiber-Reinforced Polymer-Reinforced Concrete Beams (105-S12) Jan.-Feb. 2008 104

X

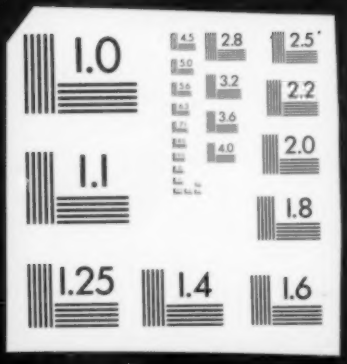
Xiao, J.-Z.—Fire Response of High-Performance Concrete Frames and Their Post-Fire Seismic Performance (105-S49) Sept.-Oct. 2008 531
Xiao, Y.—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) July-Aug. 2008 433

Y

Yang, K.-H.
—Effectiveness of Web Reinforcement around Openings in Continuous Concrete Deep Beams (105-S39) July-Aug. 2008 414
—Mechanism Analysis for Concrete Breakout Capacity of Single Anchors in Tension (105-S57) Sept.-Oct. 2008 609
Yi, W.-J.—Experimental Study on Progressive Collapse-Resistant Behavior of Reinforced Concrete Frame Structures (105-S41) July-Aug. 2008 433
Yindeesuk, S.—Experimental Validation of Strut-and-Tie Method for Complex Regions (105-S54) Sept.-Oct. 2008 578
Yu, P.
—Description of a Mechanical Device for Prestressing of Carbon Fiber-Reinforced Polymer Sheets—Part I (105-S01) Jan.-Feb. 2008 3
—Flexural Strength of Reinforced Concrete Beams Strengthened with Prestressed Carbon Fiber-Reinforced Polymer Sheets—Part II (105-S02) Jan.-Feb. 2008 11
Yu, Q.—Minimizing Statistical Bias to Identify Size Effect from Beam Shear Database (105-S62) Nov.-Dec. 2008 685

Z

Zararis, I. P.—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Nov.-Dec. 2008 711
Zararis, P. D.—Shear Strength of Reinforced Concrete Beams under Uniformly Distributed Loads (105-S65) Nov.-Dec. 2008 711
Zia, P.
—Behavior of Concrete Bridge Decks Reinforced with High-Performance Steel (105-S09) Jan.-Feb. 2008 78
—Characteristics of Compressive Stress Distribution in High-Strength Concrete (105-S59) Sept.-Oct. 2008 626
—Flexural Strength Design of Concrete Beams Reinforced with High-Strength Steel Bars (105-S53) Sept.-Oct. 2008 570
—Shear Behavior of Large Concrete Beams Reinforced with High-Strength Steel (105-S18) Mar.-Apr. 2008 173


1.0
1.1
1.25
1.4
1.6
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8